

Title (en)

Integrated heat transfer device for planar light-wave circuit module

Title (de)

Integrierte Wärmeaustausch-Vorrichtung für planare Lichtwellenleiter-Module

Title (fr)

Dispositif de transfert de chaleur intégré pour module de guide d'ondes lumineuses planaire

Publication

EP 1279973 A3 20030625 (EN)

Application

EP 01127134 A 20011115

Priority

KR 20010043977 A 20010721

Abstract (en)

[origin: EP1279973A2] There is provided a PLC (planer light-wave circuit) module formed by depositing the core as an optical signal transmission medium and the clad surrounding the core on a semiconductor substrate (21), wherein a heating line (24) is attached to the lower surface of the PLC and generates heat to the PLC from externally received power. An insulation layer is coated on the lower surface of the PLC with the heating line (24) fixed thereto. Therefore, the direct attachment of the heating line to the lower surface of the PLC minimizes heat loss. <IMAGE>

IPC 1-7

G02B 6/12

IPC 8 full level

G02B 6/02 (2006.01); **G02B 6/122** (2006.01); **G02B 6/34** (2006.01); **G02B 6/12** (2006.01)

CPC (source: EP KR US)

G02B 6/02 (2013.01 - KR); **G02B 6/12026** (2013.01 - EP US); **G02B 2006/12135** (2013.01 - EP US)

Citation (search report)

- [X] JP H04204523 A 19920724 - OMRON TATEISI ELECTRONICS CO
- [X] US 5016958 A 19910521 - BOOTH BRUCE L [US]
- [A] JP H10123340 A 19980515 - HITACHI CABLE
- [A] JP 2001142010 A 20010525 - HITACHI CABLE, et al
- [A] EP 0603411 B
- [A] JP S58115424 A 19830709 - OMRON TATEISI ELECTRONICS CO
- [A] JP H06295779 A 19941021 - ADAMANDO KOGYO KK
- [A] EP 1099965 A2 20010516 - LUCENT TECHNOLOGIES INC [US]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1279973 A2 20030129; **EP 1279973 A3 20030625**; JP 2003043280 A 20030213; KR 100416993 B1 20040205; KR 20030008939 A 20030129; US 2003016900 A1 20030123; US 6757452 B2 20040629

DOCDB simple family (application)

EP 01127134 A 20011115; JP 2002151533 A 20020524; KR 20010043977 A 20010721; US 97463001 A 20011010